

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: May 4, 2005, 12:02:12 ; Search time 76.9588  
Seconds

(without alignments)  
5591.830 Million cell

updates/sec

Title: US-09-300-482-4  
Perfect score: 263  
Sequence: 1  
gaagcacttttggtatgttgc.....agnngnacntnnnnnganna 263

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued\_Patents\_NA:\*  
1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq:\*  
2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq:\*  
3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq:\*  
4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq:\*  
5: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq:\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to  
have a  
score greater than or equal to the score of the result being  
printed,  
and is derived by analysis of the total score distribution.

\*\*\*\*\*

## SUMMARIES

Result			%				
No.	Score	Match	Query	Length	DB	ID	
Description							
c 1	61.4	23.3	1830121	4	US-09-557-884-1		
Sequence 1, Appli							
c 2	61.4	23.3	1830121	4	US-09-643-990A-1		
Sequence 1, Appli							
3	59.6	22.7	6132	4	US-09-809-665A-7		
Sequence 7, Appli							
4	58.2	22.1	1533	4	US-09-134-000C-2369		
Sequence 2369, Ap							
5	54	20.5	3015	4	US-09-710-279-3401		
Sequence 3401, Ap							
c 6	54	20.5	3081	4	US-09-710-279-3602		
Sequence 3602, Ap							
7	52	19.8	1548	4	US-09-107-532A-1949		
Sequence 1949, Ap							
8	51.4	19.5	16592	4	US-08-956-171E-53		
Sequence 53, Appl							
9	51.4	19.5	16592	4	US-08-781-986A-53		
Sequence 53, Appl							
c 10	50.6	19.2	2494	3	US-08-714-918-3		
Sequence 3, Appli							
c 11	50.6	19.2	2494	3	US-09-265-315-3		
Sequence 3, Appli							
c 12	50.6	19.2	2494	3	US-09-265-315-3		
Sequence 3, Appli							
c 13	50.6	19.2	2494	3	US-09-266-417-3		
Sequence 3, Appli							
c 14	50.6	19.2	2494	4	US-09-528-709-3		
Sequence 3, Appli							
c 15	50.6	19.2	2494	4	US-09-527-745-3		
Sequence 3, Appli							
16	49.6	18.9	1488	3	US-08-962-859A-1		
Sequence 1, Appli							
17	49.6	18.9	1488	4	US-09-583-110-1905		
Sequence 1905, Ap							
18	49.6	18.9	1488	4	US-09-107-433-785		
Sequence 785, App							
19	49	18.6	669	4	US-09-902-540-1996		
Sequence 1996, Ap							

c 20	49	18.6	720	4	US-09-902-540-4
Sequence 4, Appli					
21	48.2	18.3	744	4	US-09-248-796A-3185
Sequence 3185, Ap					
c 22	48	18.3	2764	2	US-08-986-963-4
Sequence 4, Appli					
23	48	18.3	13121	3	US-08-961-527-126
Sequence 126, App					
24	47.2	17.9	640681	4	US-09-790-988-1
Sequence 1, Appli					
25	45.2	17.2	1554	3	US-09-134-001C-351
Sequence 351, App					
26	44.6	17.0	219	3	US-09-134-001C-1197
Sequence 1197, Ap					
27	42.6	16.2	2631	4	US-09-949-016-4987
Sequence 4987, Ap					
c 28	42	16.0	3376	4	US-09-710-279-4055
Sequence 4055, Ap					
29	39.6	15.1	6995	4	US-09-531-266-1
Sequence 1, Appli					
30	37.4	14.2	1461	3	US-08-445-463B-5
Sequence 5, Appli					
31	37.4	14.2	1461	3	US-08-445-464C-5
Sequence 5, Appli					
32	37.4	14.2	1461	3	US-08-044-857D-5
Sequence 5, Appli					
33	37.4	14.2	1461	5	PCT-US94-03437-5
Sequence 5, Appli					
34	37.2	14.1	1455	5	PCT-US94-03437-7
Sequence 7, Appli					
35	37.2	14.1	1467	5	PCT-US94-03437-3
Sequence 3, Appli					
36	37.2	14.1	1571	3	US-08-445-463B-3
Sequence 3, Appli					
37	37.2	14.1	1571	3	US-08-445-464C-3
Sequence 3, Appli					
38	37.2	14.1	1571	3	US-08-044-857D-3
Sequence 3, Appli					
39	37.2	14.1	1696	1	US-07-737-071A-1
Sequence 1, Appli					
40	37.2	14.1	1696	1	US-08-022-096-1
Sequence 1, Appli					
41	37.2	14.1	1696	3	US-08-445-463B-7
Sequence 7, Appli					
42	37.2	14.1	1696	3	US-08-445-464C-7
Sequence 7, Appli					

43	37.2	14.1	1696	3	US-08-044-857D-7
Sequence 7, Appli					
44	36.4	13.8	34266	4	US-09-949-016-13250
Sequence 13250, A					
45	36.2	13.8	2853	4	US-09-620-312D-463
Sequence 463, App					

# ALIGNMENTS

## RESULT 1

US-09-557-884-1/c

; Sequence 1, Application US/09557884

; Patent No. 6506581

; GENERAL INFORMATION:

; APPLICANT: Fleischmann et al.

; TITLE OF INVENTION: The Nucleotide sequence of

; the Haemophilus influenzae Rd Genome,

Fragments

; Thereof, and Uses Thereof

; NUMBER OF SEQUENCES: 1

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Human Genome Sciences, Inc.

; STREET: 9410 Key West Avenue

; CITY: Rockville

; STATE: MD

; COUNTRY: USA

; ZIP: 20850

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3 1/2 inch diskette

; COMPUTER: Dell Pentium

; OPERATING SYSTEM: MS DOS v6.22

; SOFTWARE: ASCII Text

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/557,884

; FILING DATE: 25-Apr-2000

; CLASSIFICATION: <Unknown>

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/476,102

; FILING DATE: JUN-5-1995

; ATTORNEY/AGENT INFORMATION:

; NAME: Michelle S. Marks

; REGISTRATION NUMBER: 41,971

; REFERENCE/DOCKET NUMBER: PB186P3

; TELECOMMUNICATION INFORMATION:

-----

; TELEPHONE: 301-309-8504  
; TELEFAX: 301-309-8439  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1830121 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-09-557-884-1

Query Match 23.3%; Score 61.4; DB 4; Length  
1830121;  
Best Local Similarity 52.1%; Pred. No. 1.3e-08;  
Matches 110; Conservative 0; Mismatches 101; Indels  
0; Gaps 0;

Qy 53  
AGGGATGGAATCGCATAATATTTGAGAAGCCATTTGGCTTTGATGCACTTTCTTCCCATA 112  
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| | | |  
Db 577356  
ATGGCTGGAAACGTATTATCGTTGAAAAACCTTTTGGTTACGATGAAAAACAGCGCAAA  
577297

Qy 113  
GGCTGACACAATATCTTCTTTCAAACCTTTCAGGAAAAGCAAATATATAGAATTGANCATC 172  
| | | | | | | | | | | | | | | | | | | | | |  
| | | |  
Db 577296  
CATTAGACGTACAAATCCACCGTTTCTTTGAAGAACACCAAATTTATCGTATCGATCATT  
577237

Qy 173  
TACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTTAAGGGTTTCAAANNNAGNTTTTG 232  
| | | | | | | | | | | | | | | | | | | | | |  
| | | |  
Db 577236  
ATTTAGGTAAAGAAACCGTTCAAACCTTGCTCGTATTACGTTTTTCAAATGGTTGGTTTG  
577177

Qy 233 AGCCACCTTNGAGNNGNACNTNNNNNGANNA 263  
| | | | | | | | | | | | | | | | | | | | | |  
Db 577176 AACCGCTTTGGAACCGTAATTCATTGATTA 577146

-----

RESULT 2

US-09-643-990A-1/c

; Sequence 1, Application US/09643990A

; Patent No. 6528289

; GENERAL INFORMATION:

; APPLICANT: Robert D. Fleischmann

; Mark D. Adams

; Owen White

; Hamilton O. Smith

; J. Craig Venter

; TITLE OF INVENTION: The Nucleotide sequence of

; the Haemophilus influenzae Rd Genome,

Fragments

; Thereof, and Uses Thereof

; NUMBER OF SEQUENCES: 1

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Human Genome Sciences, Inc.

; STREET: 9410 Key West Avenue

; CITY: Rockville,

; STATE: MD

; COUNTRY: USA

; ZIP: 20850

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3 1/2 inch diskette

; COMPUTER: Dell Pentium

; OPERATING SYSTEM: MS DOS v6.22

; SOFTWARE: ASCII Text

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/643,990A

; FILING DATE: 23-Aug-2000

; CLASSIFICATION: <Unknown>

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/487,429

; FILING DATE: 1995-06-07

; APPLICATION NUMBER: 08/426,787

; FILING DATE: 1995-04-21

; ATTORNEY/AGENT INFORMATION:

; NAME: Kenley K. Hoover

; REGISTRATION NUMBER: 40,302

; REFERENCE/DOCKET NUMBER: PB186P1C1

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 301-610-5790

; TELEFAX: 310-309-8439

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1830121 base pairs

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; APPLICANT: Lowery E., David, et al.
; TITLE OF INVENTION: Anti-Bacterial Vaccine Compositions
; FILE REFERENCE: 28341/00435
; CURRENT APPLICATION NUMBER: US/09/809,665A
; CURRENT FILING DATE: 2001-03-15
; PRIOR APPLICATION NUMBER: 60/153,453
; PRIOR FILING DATE: 1999-09-10
; PRIOR APPLICATION NUMBER: 60/128,689
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: 09/545,199
; PRIOR FILING DATE: 2000-04-06
; NUMBER OF SEQ ID NOS: 197
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 6132
; TYPE: DNA
; ORGANISM: Pasteurella multocida
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (4032)..(4727)
; OTHER INFORMATION: devB
US-09-809-665A-7

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Query Match          22.7%;  Score 59.6;  DB 4;  Length 6132;
Best Local Similarity 51.4%;  Pred. No. 3.5e-09;
Matches 110;  Conservative 0;  Mismatches 104;  Indels
0;  Gaps 0;

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Qy          50
AGAAGGGATGGAATCGCATAATATTTGAGAAGCCATTTGGCTTTGATGCACTTTCTTCCC 109
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Db          2903
AGTTTGGCTGGAAGCGGTTAATTGTGGAAAAACCGTTTGGTTATGATATACGCACGGCAA 2962

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Qy          110
ATAGGCTGACACAATATCTTCTTTCAAACCTTTCAGGAAAAGCAAATATATAGAATTGANC 169
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Db          2963
AAGAACTCGATATTCAAATTCACCGTTTCTTTGATGAACACCAAATTTATCGTATTGACC 3022

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Qy          170
ATCTACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTTAAGGGTTTCAAANNNAGNTT 229
      |  || |||  |  |  |||||  |  ||  |  ||||  ||
|  |  |

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Db 3023  
ACTATCTTGGTAAAGAAACGGTTCAAAATCTGCTTGTGTTGCGTTTTTCTAATGGATGGT 3082

Qy 230 TTGAGCCACCTTNGAGNNGNACNTNNNNNGANNA 263

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Db 3083 TTGAACCACTCTGGAACCGTAATTTTCATTGATTA 3116

#### RESULT 4

US-09-134-000C-2369

; Sequence 2369, Application US/09134000C

; Patent No. 6617156

; GENERAL INFORMATION:

; APPLICANT: Lynn Doucette-Stamm et al

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES

RELATING TO

; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND  
THERAPEUTICS

; FILE REFERENCE: 032796-032

; CURRENT APPLICATION NUMBER: US/09/134,000C

; CURRENT FILING DATE: 1998-08-13

; PRIOR APPLICATION NUMBER: US 60/055,778

; PRIOR FILING DATE: 1997-08-15

; NUMBER OF SEQ ID NOS: 6812

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 2369

; LENGTH: 1533

; TYPE: DNA

; ORGANISM: Enterococcus faecalis

US-09-134-000C-2369

Query Match 22.1%; Score 58.2; DB 4; Length 1533;  
Best Local Similarity 51.2%; Pred. No. 5.3e-09;  
Matches 108; Conservative 0; Mismatches 103; Indels  
0; Gaps 0;

Qy 53

AGGGATGGAATCGCATAATATTTGAGAAGCCATTTGGCTTTGATGCACTTTCTTCCCATA 112

| || | |||| |||| | || ||||| |||| | ||||

||| || |

Db 425

AAGGCTTTGATCGTCTAATTATCGAAAAGCCATTTGGTTCTGATTATGAATCTGCCTACG 484

Qy 113

GGCTGACACAATATCTTCTTTCAAACCTTTCAGGAAAAGCAAATATATAGAATTGANCATC 172

| | || | ||| | | |||| ||| | | || |

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||||||| |||  
Db 485  
AATTAAATGAAGAAATTCGTGCTGCATTTCTGAACAAGATATTTTCCGAATTGACCATT 544

Qy 173  
TACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTTAAGGGTTTCAAANNAGNTTTTG 232  
|||| | | | |||| | || | | ||

|||||  
Db 545  
ACTTAGGCAAAGAAATGATCCAAAATATTTTCAGCCATTCGTTTTGCCAATAATATTTTTG 604

Qy 233 AGCCACCTTNGAGNNGNACNTNNNNNGANNA 263  
| ||| | || | || |  
Db 605 AATCACAATGGAACAATCGTTACATTGATAA 635

RESULT 5  
US-09-710-279-3401  
; Sequence 3401, Application US/09710279  
; Patent No. 6703492  
; GENERAL INFORMATION:  
; APPLICANT: KIMMERLY, WILLIAM JOHN  
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS  
AND PROTEINS  
; FILE REFERENCE: PU3480US  
; CURRENT APPLICATION NUMBER: US/09/710,279  
; CURRENT FILING DATE: 2000-11-09  
; PRIOR APPLICATION NUMBER: 60/164,258  
; PRIOR FILING DATE: 1999-11-09  
; NUMBER OF SEQ ID NOS: 4472  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3401  
; LENGTH: 3015  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:  
synthetic  
; OTHER INFORMATION: nucleic acid sequence  
US-09-710-279-3401

Query Match 20.5%; Score 54; DB 4; Length 3015;  
Best Local Similarity 54.5%; Pred. No. 1.8e-07;  
Matches 114; Conservative 0; Mismatches 93; Indels  
2; Gaps 1;

~ ~

Qy 45  
GACCCAGAAGGGATGGAATCGCATAATATTTGAGAAGCCATTGGCTTTGATGCACTTTC 104  
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| ||  
Db 1315  
GAACGTAAAAGGGGTGATGCGAATAATTATAGAAAAACCATTGGTGATGATTTAAATC 1374

Qy 105  
TTCCCATAGGCTGACACAATATCTTCTTCAAACCTTCAGGAAAAGCAAATATATAGAAT 164  
| || | | | || | | ||| | ||| |  
||||| | ||||  
Db 1375  
T--GCAAAAAATTAAATAATCAAATAAGAAAGTCTTTTAAGAAGAAAAAATATTTGGAAT 1432

Qy 165  
TGANCATCTACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTTAAGGGTTTCAAANN 224  
||| || |||| | | | |||| | | ||| |  
||| |||  
Db 1433  
TGATCACTATTTAGGTAAAGAAATGATTCAAAATATTGAACGTCTACGATTTTGAAACAC 1492

Qy 225 AGNTTTTGAGCCACCTTNGAGNNGNACNT 253  
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Db 1493 TATATTTGAACCACTTTGGAATAATAAGT 1521



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;      NUMBER OF SEQUENCES: 7310
;      CORRESPONDENCE ADDRESS:
;          ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;          STREET: 100 Beaver Street
;          CITY: Waltham
;          STATE: Massachusetts
;          COUNTRY: USA
;          ZIP: 02354
;      COMPUTER READABLE FORM:
;          MEDIUM TYPE: CD-ROM ISO9660
;          COMPUTER: PC
;          OPERATING SYSTEM: <Unknown>
;          SOFTWARE: ASCII
;      CURRENT APPLICATION DATA:
;          APPLICATION NUMBER: US/09/107,532A
;          FILING DATE: 30-Jun-1998
;      PRIOR APPLICATION DATA:
;          APPLICATION NUMBER: 60/085,598
;          FILING DATE: 14 May 1998
;          APPLICATION NUMBER: 60/051571
;          FILING DATE: July 2, 1997
;      ATTORNEY/AGENT INFORMATION:
;          NAME: Ariniello, Pamela Deneke
;          REGISTRATION NUMBER: 40,489
;          REFERENCE/DOCKET NUMBER: GTC-012
;      TELECOMMUNICATION INFORMATION:
;          TELEPHONE: (781)893-5007
;          TELEFAX: (781)893-8277
;      INFORMATION FOR SEQ ID NO: 1949:
;          SEQUENCE CHARACTERISTICS:
;              LENGTH: 1548 base pairs
;              TYPE: nucleic acid
;              STRANDEDNESS: double
;              TOPOLOGY: circular
;          MOLECULE TYPE: DNA (genomic)
;          HYPOTHETICAL: NO
;          ANTI-SENSE: NO
;          ORIGINAL SOURCE:
;              ORGANISM: Enterococcus faecium
;          FEATURE:
;              NAME/KEY: misc_feature
;              LOCATION: (B) LOCATION 1...1548
;          SEQUENCE DESCRIPTION: SEQ ID NO: 1949:
US-09-107-532A-1949

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Query Match 19.8%; Score 52; DB 4; Length 1548;

Best Local Similarity 48.3%; Pred. No. 5.9e-07;  
Matches 112; Conservative 0; Mismatches 120; Indels  
0; Gaps 0;

Qy 32  
CAAGCAGTGCTCAGACCCAGAAGGGATGGAATCGCATAATATTTGAGAAGCCATTTGGCT 91  
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|| || |  
Db 419  
CACAAAATATTATGACAAAAAATGGCTTCAATCGTTTGATCATAGAAAACCGTTCGGTT 478

Qy 92  
TTGATGCACTTTTCTTCCCATAGGCTGACACAATATCTTCTTTCAAACCTTTCAGGAAAAGC 151  
||| | | || | | || | | | |  
||| |  
Db 479  
CTGATTACCAGTCTGCTTTTGAATTGAACCAGCAAATCAGAGAAGTATTCCCAGAACAAG 538

Qy 152  
AAATATATAGAATTGANCATCTACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTTAA 211  
| | | | | || | || | | | | | |  
||| | |  
Db 539  
ATATTTTTCAGGATTGATCATTATTTAGGAAAAGAAATGATCCAAAACATCTCAGCTATCC 598

Qy 212 GGGTTTCAAANNAGNTTTTGAGCCACCTTNGAGNNGNACNTNNNNNGANNA  
263  
| | | | | || || | | | | | | |  
Db 599 GTTTTGCCAATAATATTTTGGAGGCTCAATGGAACAATCGCTATATCGACAA  
650

RESULT 8  
US-08-956-171E-53  
; Sequence 53, Application US/08956171E  
; Patent No. 6593114  
; GENERAL INFORMATION:  
; APPLICANT: Charles Kunsch  
; Gil H. Choi  
; Patrick S. Dillon  
; Craig A. Rosen  
; Steven C. Barash  
; Michael R. Fannon  
; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides  
and Sequences  
; NUMBER OF SEQUENCES: 5256  
-----

```

;      CORRESPONDENCE ADDRESS:
;      ADDRESSEE: Human Genome Sciences, Inc.
;      STREET: 9410 Key West Avenue
;      CITY: Rockville
;      STATE: Maryland
;      COUNTRY: USA
;      ZIP: 20850
;
;      COMPUTER READABLE FORM:
;      MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
;      COMPUTER: HP Vectra 486/33
;      OPERATING SYSTEM: MSDOS version 6.2
;      SOFTWARE: ASCII Text
;
;      CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/08/956,171E
;      FILING DATE: 20-Oct-1997
;      CLASSIFICATION: <Unknown>
;
;      PRIOR APPLICATION DATA:
;      APPLICATION NUMBER: 60/009,861
;      FILING DATE: January 5, 1996
;      APPLICATION NUMBER: 08/781,986
;      FILING DATE: January 3, 1997
;
;      ATTORNEY/AGENT INFORMATION:
;      NAME: Mark J. Hyman
;      REGISTRATION NUMBER: 46,789
;      REFERENCE/DOCKET NUMBER: PB248P1
;
;      TELECOMMUNICATION INFORMATION:
;      TELEPHONE: (240) 314-1224
;      TELEFAX: (301) 309-8439
;
;      INFORMATION FOR SEQ ID NO: 53:
;      SEQUENCE CHARACTERISTICS:
;      LENGTH: 16592 base pairs
;      TYPE: nucleic acid
;      STRANDEDNESS: double
;      TOPOLOGY: linear
;
;      SEQUENCE DESCRIPTION: SEQ ID NO: 53:
US-08-956-171E-53

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      Query Match          19.5%;   Score 51.4;   DB 4;   Length
16592;
      Best Local Similarity  51.0%;   Pred. No. 2.8e-06;
      Matches 103;   Conservative    0;   Mismatches  99;   Indels
0;   Gaps    0;

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Qy          52
AAGGGATGGAATCGCATAATATTTGAGAAGCCATTTGGCTTTGATGCACTTTCTTCCCAT 111
      || ||||  || ||| |  |  | || || ||||  ||  ||||  |
..  . . .

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|| || |  
Db 814  
AAAGGATTTAAACGCCTTGTTATCGAAAAACCATTCGGTAGTGATTTAAAATCAGCCGAA 873

Qy 112  
AGGCTGACACAATATCTTCTTTCAAACCTTTCAGGAAAAGCAAATATATAGAATTGANCAT 171  
| | | | | | | | | | | | | | | |

|||| |  
Db 874  
GCATTAAACAATCAAATTCGTAAATCATTTAAAGAAGAAGAAATTTATCGTATTGACCAC 933

Qy 172  
CTACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTTAAGGGTTTCAAANNAGNTTTT 231  
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Db 934  
TATTTAGGAAAAGACATGGTTCAAAATATCGAGGTATTACGTTTTGCGAATGCGATGTTT 993

Qy 232 GAGCCACCTTNGAGNNGNACNT 253  
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Db 994 GAACCATTATGGAATAACAAAT 1015

RESULT 9  
US-08-781-986A-53  
; Sequence 53, Application US/08781986A  
; Patent No. 6737248  
; GENERAL INFORMATION:  
; APPLICANT: Charles Kunsch  
; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides  
and Sequences  
; NUMBER OF SEQUENCES: 5255  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Human Genome Sciences, Inc.  
; STREET: 9410 Key West Avenue  
; CITY: Rockville  
; STATE: Maryland  
; COUNTRY: USA  
; ZIP: 20850  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage  
; COMPUTER: HP Vectra 486/33  
; OPERATING SYSTEM: MSDOS version 6.2  
; SOFTWARE: ASCII Text  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/781,986A  
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; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Benson, Bob
; REGISTRATION NUMBER: 30,446
; REFERENCE/DOCKET NUMBER: PB248PP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 53:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16592 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
US-08-781-986A-53

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Query Match          19.5%; Score 51.4; DB 4; Length
16592;
Best Local Similarity 51.0%; Pred. No. 2.8e-06;
Matches 103; Conservative 0; Mismatches 99; Indels
0; Gaps 0;

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Qy          52
AAGGGATGGAATCGCATAATATTTGAGAAGCCATTTGGCTTTGATGCACTTTCTTCCCAT 111
      || |||| || ||| | | | || || |||| || |||| |
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Db          814
AAAGGATTTAAACGCCTTGTTATCGAAAAACCATTCGGTAGTGATTTAAAATCAGCCGAA 873

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Qy          112
AGGCTGACACAATATCTTCTTTCAAACCTTTCAGGAAAAGCAAATATATAGAATTGANCAT 171
      | | | | | || | | || | || | || | || | || |
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Db          874
GCATTAAACAATCAAATTCGTAAATCATTTAAAGAAGAAGAAATTTATCGTATTGACCAC 933

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Qy          172
CTACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTTAAGGGTTTCAAANNAGNTTTT 231
      ||||| | | |||| | || | || | ||
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Db          934
TATTTAGGAAAAGACATGGTTCAAAATATCGAGGTATTACGTTTTGCGAATGCGATGTTT 993

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Qy 232 GAGCCACCTTNGAGNNGNACNT 253  
 || ||| | || | |  
 Db 994 GAACCATTATGGAATAACAAAT 1015

RESULT 10

US-08-714-918-3/c

; Sequence 3, Application US/08714918

; Patent No. 6037123

; GENERAL INFORMATION:

; APPLICANT: Benton, Bret

; APPLICANT: Lee, Ving

; APPLICANT: Malouin, Francois

; APPLICANT: Martin, Patrick K.

; APPLICANT: Schmid, Molly B.

; APPLICANT: Sun, Dongxu

; TITLE OF INVENTION: STAPHYLOCOCCUS AUREUS ANTIBACTERIAL

; TITLE OF INVENTION: TARGET GENES

; NUMBER OF SEQUENCES: 111

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Lyon & Lyon

; STREET: 633 West Fifth Street

; STREET: Suite 4700

; CITY: Los Angeles

; STATE: California

; COUNTRY: U.S.A.

; ZIP: 90071-2066

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

; MEDIUM TYPE: storage

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: IBM P.C. DOS 5.0

; SOFTWARE: Word Perfect 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/714,918

; FILING DATE: September 13, 1996

; CLASSIFICATION: 424

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 60/009,102

; FILING DATE: December 22, 1995

; APPLICATION NUMBER: 60/003,798

; FILING DATE: September 15, 1995

; ATTORNEY/AGENT INFORMATION:

; NAME: Warburg, Richard J.

; REGISTRATION NUMBER: 32,327

-----

; REFERENCE/DOCKET NUMBER: 222/005  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2494 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-714-918-3

Query Match 19.2%; Score 50.6; DB 3; Length 2494;  
Best Local Similarity 50.0%; Pred. No. 2.1e-06;  
Matches 101; Conservative 2; Mismatches 99; Indels  
0; Gaps 0;

Qy 52  
AAGGGATGGAATCGCATAATATTTGAGAAGCCATTTGGCTTTGATGCACTTTCTTCCCAT 111  
|| |||| || ||| | | | || || |||| || |||| |  
|| || |

Db 1425  
AAAGGATTTAAACGCCTTGTTATCGAAAAACCATTTCGGTAGTGATTTAAAATCAGCCGAA 1366

Qy 112  
AGGCTGACACAATATCTTCTTTCAAACCTTTCAGGAAAAGCAAATATATAGAATTGANCAT 171  
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||: || ||

Db 1365  
GCATTAAACAATCAAATTCGTAAATCATTTAAAGAAGAAGAAATTTAYCGTATKGACCAC 1306

Qy 172  
CTACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTTAAGGGTTTCAAANNAGNTTTT 231  
||||| | |||| | || | || | ||  
|||

Db 1305  
TATTTAGGAAAAGACATGGTTCAAAATATCGAGGTATTACGTTTTGCGAATGCGATGTTT 1246

Qy 232 GAGCCACCTTNGAGNNGNACNT 253  
|| ||| | || | |  
Db 1245 GAACCATTATGGAATAACAAAT 1224

RESULT 11  
US-09-265-315-3/c  
US-09-265-315-3/c

; Sequence 3, Application US/09265315  
; Patent No. 6187541  
; GENERAL INFORMATION:  
; APPLICANT: Benton, Bret  
; APPLICANT: Lee, Ving J.  
; APPLICANT: Malouin, Francois  
; APPLICANT: Martin, Patrick K.  
; APPLICANT: Schmid, Molly B.  
; APPLICANT: Sun, Dongxu  
; TITLE OF INVENTION: METHODS OF SCREENING FOR COMPOUNDS  
; TITLE OF INVENTION: ACTIVE ON STAPHYLOCOCCUS AUREUS  
; TITLE OF INVENTION: TARGET GENES  
; NUMBER OF SEQUENCES: 111  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/265,315  
; FILING DATE: March 9, 1999  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/714,918  
; FILING DATE: September 13, 1996  
; APPLICATION NUMBER: 60/009,102  
; FILING DATE: December 22, 1995  
; APPLICATION NUMBER: 60/003,798  
; FILING DATE: September 15, 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 240/247  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510

; INFORMATION FOR SEQ ID NO: 3:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2494 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-09-265-315-3

Query Match 19.2%; Score 50.6; DB 3; Length 2494;  
Best Local Similarity 50.0%; Pred. No. 2.1e-06;  
Matches 101; Conservative 2; Mismatches 99; Indels  
0; Gaps 0;

Qy 52

AAGGGATGGAATCGCATAATATTTGAGAAGCCATTTGGCTTTGATGCACCTTCTTCCCAT 111

|| |||| || ||| | | | || || |||| || |||| |  
|| || |

Db 1425

AAAGGATTTAAACGCCTTGTTATCGAAAAACCATTCGGTAGTGATTTAAAATCAGCCGAA 1366

Qy 112

AGGCTGACACAATATCTTCTTTCAAACCTTTCAGGAAAAGCAAATATATAGAATTGANCAT 171

| | | | || | | || | || | || | ||: |  
||: || ||

Db 1365

GCATTAAACAATCAAATTCGTAAATCATTTAAAGAAGAAGAAATTTAYCGTATKGACCAC 1306

Qy 172

CTACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTTAAGGGTTTCAAANNNAGNTTTT 231

||||| | | |||| | || | || | ||  
|||

Db 1305

TATTTAGGAAAAGACATGGTTCAAAATATCGAGGTATTACGTTTTGCGAATGCGATGTTT 1246

Qy 232 GAGCCACCTTNGAGNNGNACNT 253

|| ||| | || | |

Db 1245 GAACCATTATGGAATAACAAAT 1224

RESULT 12

US-09-265-315-3/c

; Sequence 3, Application US/09265315

; Patent No. 6187541

; GENERAL INFORMATION:

; APPLICANT: Benton, Bret

; APPLICANT: Lee, Ving J.

; APPLICANT: Malouin, Francois  
; APPLICANT: Martin, Patrick K.  
; APPLICANT: Schmid, Molly B.  
; APPLICANT: Sun, Dongxu  
; TITLE OF INVENTION: METHODS OF SCREENING FOR COMPOUNDS  
; TITLE OF INVENTION: ACTIVE ON STAPHYLOCOCCUS AUREUS  
; TITLE OF INVENTION: TARGET GENES  
; NUMBER OF SEQUENCES: 111  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/265,315  
; FILING DATE: March 9, 1999  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/714,918  
; FILING DATE: September 13, 1996  
; APPLICATION NUMBER: 60/009,102  
; FILING DATE: December 22, 1995  
; APPLICATION NUMBER: 60/003,798  
; FILING DATE: September 15, 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 240/247  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2494 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; SEQUENCE: 1

; TOPOLOGY: linear  
US-09-265-315-3

Query Match 19.2%; Score 50.6; DB 3; Length 2494;  
Best Local Similarity 50.0%; Pred. No. 2.1e-06;  
Matches 101; Conservative 2; Mismatches 99; Indels  
0; Gaps 0;

Qy 52  
AAGGGATGGAATCGCATAATATTTGAGAAGCCATTTGGCTTTGATGCACTTTCTTCCCAT 111  
|| |||| || ||| | | | || || |||| || |||| |  
|| || |  
Db 1425  
AAAGGATTTAAACGCCTTGTTATCGAAAAACCATTCGGTAGTGATTTAAAATCAGCCGAA 1366

Qy 112  
AGGCTGACACAATATCTTCTTTCAAACCTTTCAGGAAAAGCAAATATATAGAATTGANCAT 171  
| | | | ||| | | ||| | ||| | |||| ||: |  
||: || ||  
Db 1365  
GCATTAAACAATCAAATTCGTAAATCATTTAAAGAAGAAGAAATTTAYCGTATKGACCAC 1306

Qy 172  
CTACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTTAAGGGTTTCAAANNAGNTTTT 231  
||||| | |||| | ||| | || | ||  
|||  
Db 1305  
TATTTAGGAAAAGACATGGTTCAAAATATCGAGGTATTACGTTTTGCGAATGCGATGTTT 1246

Qy 232 GAGCCACCTTNGAGNNGNACNT 253  
|| ||| | || | |  
Db 1245 GAACCATTATGGAATAACAAAT 1224

RESULT 13

US-09-266-417-3/c

; Sequence 3, Application US/09266417

; Patent No. 6228588

; GENERAL INFORMATION:

; APPLICANT: Benton, Bret

; APPLICANT: Lee, Ving J.

; APPLICANT: Malouin, Francois

; APPLICANT: Martin, Patrick K.

; APPLICANT: Schmid, Molly B.

; APPLICANT: Sun, Dongxu

; TITLE OF INVENTION: METHODS OF SCREENING FOR COMPOUNDS

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; TITLE OF INVENTION: ACTIVE ON STAPHYLOCOCCUS AUREUS
; TITLE OF INVENTION: TARGET GENES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/266,417
; FILING DATE: March 9, 1999
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/714,918
; FILING DATE: September 13, 1996
; APPLICATION NUMBER: 60/009,102
; FILING DATE: December 22, 1995
; APPLICATION NUMBER: 60/003,798
; FILING DATE: September 15, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 240/248
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2494 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-266-417-3

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Query Match          19.2%;  Score 50.6;  DB 3;  Length 2494;
Best Local Similarity 50.0%;  Pred. No. 2.1e-06;

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Matches 101; Conservative 2; Mismatches 99; Indels  
0; Gaps 0;

Qy 52  
AAGGGATGGAATCGCATAATATTTGAGAAGCCATTTGGCTTTGATGCACTTTCTTCCCAT 111  
|| |||| || ||| | | || || |||| || |||| |

|| || |  
Db 1425  
AAAGGATTTAAACGCCTTGTTATCGAAAAACCATTTCGGTAGTGATTTAAAATCAGCCGAA 1366

Qy 112  
AGGCTGACACAATATCTTCTTTCAAACCTTTCAGGAAAAGCAAATATATAGAATTGANCAT 171  
| | | | | || | | || | || | || | ||: |

||: || ||  
Db 1365  
GCATTAAACAATCAAATTCGTAAATCATTTAAAGAAGAAGAAATTTAYCGTATKGACCAC 1306

Qy 172  
CTACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTTAAGGGTTTCAAANNAGNTTTT 231  
||||| | |||| | || | || | ||

|||  
Db 1305  
TATTTAGGAAAAGACATGGTTCAAAATATCGAGGTATTACGTTTTGCGAATGCGATGTTT 1246

Qy 232 GAGCCACCTTNGAGNNGNACNT 253  
|| ||| | || | |  
Db 1245 GAACCATTATGGAATAACAAAT 1224

RESULT 14  
US-09-528-709-3/c  
; Sequence 3, Application US/09528709  
; Patent No. 6630303  
; GENERAL INFORMATION:  
; APPLICANT: Benton, Bret  
; Lee, Ving  
; Malouin, Francois  
; Martin, Patrick K.  
; Schmid, Molly B.  
; Sun, Dongxu  
; TITLE OF INVENTION: STAPHYLOCOCCUS AUREUS ANTIBACTERIAL  
; TARGET GENES  
; NUMBER OF SEQUENCES: 111  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: LOS ANGELES, CA 90012

```

;               Suite 4700
;       CITY: Los Angeles
;       STATE: California
;       COUNTRY: U.S.A.
;       ZIP: 90071-2066
;       COMPUTER READABLE FORM:
;       MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;               storage
;       COMPUTER: IBM Compatible
;       OPERATING SYSTEM: IBM P.C. DOS 5.0
;       SOFTWARE: Word Perfect 5.1
;       CURRENT APPLICATION DATA:
;       APPLICATION NUMBER: US/09/528,709
;       FILING DATE: 17-Mar-2000
;       CLASSIFICATION: 424
;       PRIOR APPLICATION DATA:
;       APPLICATION NUMBER: US/08/714,918
;       FILING DATE: September 13, 1996
;       APPLICATION NUMBER: 60/009,102
;       FILING DATE: December 22, 1995
;       APPLICATION NUMBER: 60/003,798
;       FILING DATE: September 15, 1995
;       ATTORNEY/AGENT INFORMATION:
;       NAME: Warburg, Richard J.
;       REGISTRATION NUMBER: 32,327
;       REFERENCE/DOCKET NUMBER: 222/005
;       TELECOMMUNICATION INFORMATION:
;       TELEPHONE: (213) 489-1600
;       TELEFAX: (213) 955-0440
;       TELEX: 67-3510
;       INFORMATION FOR SEQ ID NO: 3:
;       SEQUENCE CHARACTERISTICS:
;       LENGTH: 2494 base pairs
;       TYPE: nucleic acid
;       STRANDEDNESS: single
;       TOPOLOGY: linear
;       SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-528-709-3

```

```

Query Match          19.2%;   Score 50.6;   DB 4;   Length 2494;
Best Local Similarity 50.0%;   Pred. No. 2.1e-06;
Matches 101;   Conservative    2;   Mismatches 99;   Indels
0;   Gaps      0;

```

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Qy          52
AAGGGATGGAATCGCATAATATTTGAGAAGCCATTTGGCTTTGATGCACTTTCTTCCCAT 111
. . . . .

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|| ||| || ||| | | | || || ||| || ||| |  
 || || |  
 Db 1425  
 AAAGGATTTAAACGCCTTGTTATCGAAAAACCATTTCGGTAGTGATTTAAAATCAGCCGAA 1366

Qy 112  
 AGGCTGACACAATATCTTCTTTCAAACCTTTCAGGAAAAGCAAATATATAGAATTGANCAT 171  
 | | | | | || | | || | || | ||| ||: |  
 ||: || ||  
 Db 1365  
 GCATTAAACAATCAAATTCGTAAATCATTTAAAGAAGAAGAAATTTAYCGTATKGACCAC 1306

Qy 172  
 CTACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTTAAGGGTTTCAAANNAGNTTTT 231  
 ||||| | | |||| | || | || | ||  
 |||  
 Db 1305  
 TATTTAGGAAAAGACATGGTTCAAAATATCGAGGTATTACGTTTTGCGAATGCGATGTTT 1246

Qy 232 GAGCCACCTTNGAGNNGNACNT 253  
 || ||| | || | |  
 Db 1245 GAACCATTATGGAATAACAAAT 1224

RESULT 15  
 US-09-527-745-3/c  
 ; Sequence 3, Application US/09527745  
 ; Patent No. 6638718  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Benton, Bret  
 ; Lee, Ving  
 ; Malouin, Francois  
 ; Martin, Patrick K.  
 ; Schmid, Molly B.  
 ; Sun, Dongxu  
 ; TITLE OF INVENTION: STAPHYLOCOCCUS AUREUS ANTIBACTERIAL  
 ; TARGET GENES  
 ; NUMBER OF SEQUENCES: 111  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lyon & Lyon  
 ; STREET: 633 West Fifth Street  
 ; Suite 4700  
 ; CITY: Los Angeles  
 ; STATE: California  
 ; COUNTRY: U.S.A.  
 ; ZIP: 90071-2066

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;      COMPUTER READABLE FORM:
;      MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;      storage
;      COMPUTER: IBM Compatible
;      OPERATING SYSTEM: IBM P.C. DOS 5.0
;      SOFTWARE: Word Perfect 5.1
;      CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/09/527,745
;      FILING DATE: 17-Mar-2000
;      CLASSIFICATION: 424
;      PRIOR APPLICATION DATA:
;      APPLICATION NUMBER: US/08/714,918
;      FILING DATE: September 13, 1996
;      APPLICATION NUMBER: 60/009,102
;      FILING DATE: December 22, 1995
;      APPLICATION NUMBER: 60/003,798
;      FILING DATE: September 15, 1995
;      ATTORNEY/AGENT INFORMATION:
;      NAME: Warburg, Richard J.
;      REGISTRATION NUMBER: 32,327
;      REFERENCE/DOCKET NUMBER: 222/005
;      TELECOMMUNICATION INFORMATION:
;      TELEPHONE: (213) 489-1600
;      TELEFAX: (213) 955-0440
;      TELEX: 67-3510
;      INFORMATION FOR SEQ ID NO: 3:
;      SEQUENCE CHARACTERISTICS:
;      LENGTH: 2494 base pairs
;      TYPE: nucleic acid
;      STRANDEDNESS: single
;      TOPOLOGY: linear
;      SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-527-745-3

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Query Match          19.2%;  Score 50.6;  DB 4;  Length 2494;
Best Local Similarity 50.0%;  Pred. No. 2.1e-06;
Matches 101;  Conservative 2;  Mismatches 99;  Indels
0;  Gaps 0;

```

```

Qy          52
AAGGGATGGAATCGCATAATATTTGAGAAGCCATTTGGCTTTGATGCACTTTCTTCCCAT 111
      || ||||  || |||  |  |  | || || ||||  ||  ||||  |
||  ||  |
Db          1425
AAAGGATTTAAACGCCTTGTTATCGAAAAACCATTCGGTAGTGATTTAAAATCAGCCGAA 1366

```

Qy 112  
 AGGCTGACACAATATCTTCTTTCAAACTTTCAGGAAAAGCAAATATATAGAATTGANCAT 171  
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 ||:|| ||  
 Db 1365  
 GCATTAAACAATCAAATTCGTAAATCATTTAAAGAAGAAGAAATTTAYCGTATKGACCAC 1306  
  
 Qy 172  
 CTACTAGGAAGGAATCNCAGTNAAAATCCTNCAGGTTTAAGGGTTTCAAANNAGNTTTT 231  
 | | | | | | | | | | | | | | | | | | | | | |  
 |||  
 Db 1305  
 TATTTAGGAAAAGACATGGTTCAAAATATCGAGGTATTACGTTTTGCGAATGCGATGTTT 1246  
  
 Qy 232 GAGCCACCTTNGAGNNGNACNT 253  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1245 GAACCATTATGGAATAACAAAT 1224

Search completed: May 4, 2005, 12:27:36  
 Job time : 81.9588 secs